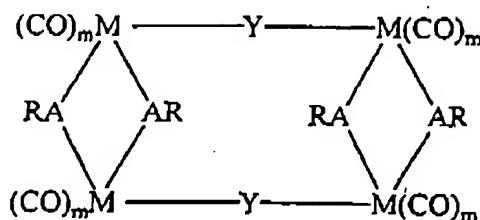


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In the claims:

1. (Currently Amended) A rectangular supramolecule having the following structure:



wherein

M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os;

Y is a nitrogen-based didentate ligand;

A is O, S, Se, or Te;

R is C₃~C₁₆ alkyl, (CH₂)_n-aryl, or (CH₂)_n-aryl-(O-C₁~C₁₆ alkyl)_p, in which n is 0-15, p is 1-3; and

~~m is 1, 2, 3, 4, or 5~~ 1-5.

2. (Original) The rectangular supramolecule of claim 1, wherein M is Re.

3. (Original) The rectangular supramolecule of claim 2, wherein m is 3.

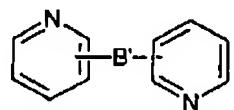
4. (Original) The rectangular supramolecule of claim 1, wherein R is C₃~C₁₆ straight chain alkyl.

5. (Original) The rectangular supramolecule of claim 1, wherein A is O.

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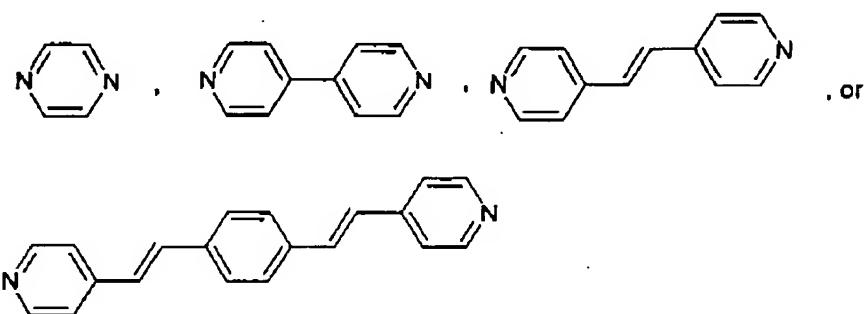
6. (Original) The rectangular supramolecule of claim 1, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

7. (Original) The rectangular supramolecule of claim 6, B' is a bond, alkenyl, alkynyl, or aryl.

8. (Original) The rectangular supramolecule of claim 6, wherein Y is



9. (Original) The rectangular supramolecule of claim 6, wherein M is Re, and m is 3.

10. (Original) The rectangular supramolecule of claim 6, wherein R is C₃~C₁₆ straight chain alkyl.

11. (Original) The rectangular supramolecule of claim 6, wherein A is O.

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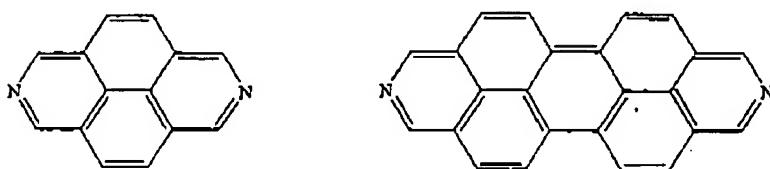
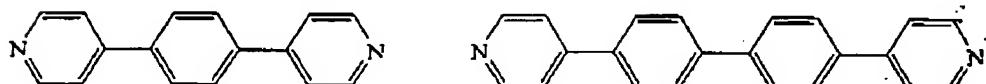
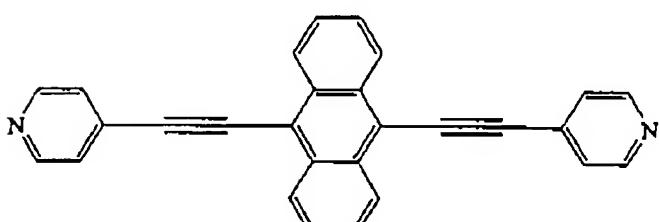
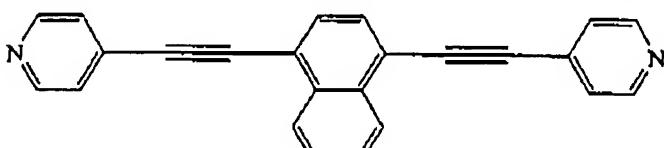
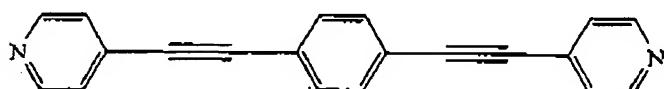
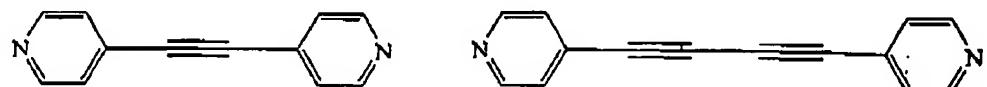
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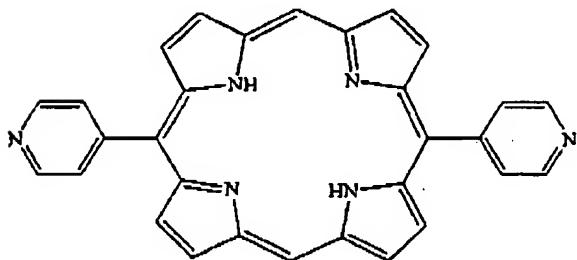
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12. (Original) The rectangular supramolecule of claim 6, wherein Y is



, or



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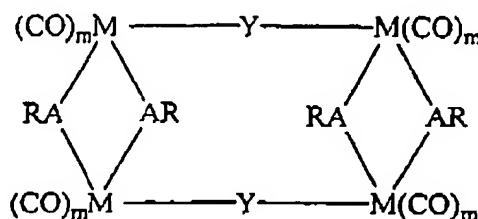
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13. (Currently Amended) A method for making a rectangular supramolecule having the following structure:



wherein M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os; Y is a nitrogen-based didentate ligand; A is O, S, Se, or Te; R is C₁~C₁₆ alkyl, (CH₂)_n-aryl, or (CH₂)_n-aryl-(O-C₁~C₁₆ alkyl)_p, in which n is 0-15, p is 1-3; and m is 1, 2, 3, 4, or 5;

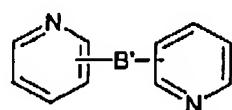
the method comprising:

reacting M(CO)_{m+2} with a nitrogen-based didentate ligand in the presence of an RAH at an elevated temperature to form the rectangular supramolecule.

14. (Original) The method of claim 13, wherein M is Re and m is 3.

15. (Original) The method of claim 13, wherein RAH is a C₁~C₁₆ aliphatic alcohol.

16. (Original) The method of claim 13, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

Claims 17-21. (Cancelled)